

Smart Learning Estate – Mauricewood Primary School

Investment & design strategy informed by IoT data

Overview



A collaboration between Midlothian Council, Mauricewood Primary School and industry partners has derived significant learning and value to the authority ahead of the investment in Mauricewood primary school. The project sought to derive invaluable insight to help better understand the existing usage and performance of the school prior to the extension.

The project deployed sensors and enhanced data analytics to understand how Mauricewood primary schools was being used and how the environment performed. It enabled insights to better inform how the authority invested in the extension of the school.



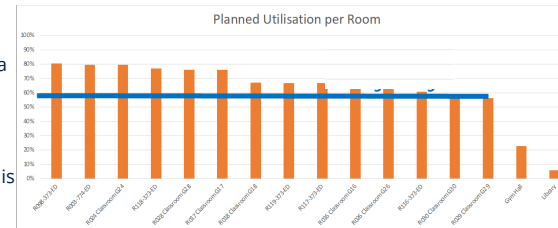
Benefits & ROI



The innovative use of IoT sensors and various digital solutions to provided real time data-driven analysis of space utilisation within the existing school.

- Identify up to 20% capacity in space utilisation.
- Identify high performance spaces and poorly performing spaces.
- Identify long travel distance and inefficiencies in current design.

“This approach has created a new level of insights and capability to support Midlothian Council manage, maintain and invest in our learning estate” Magnus Inglis
Midlothian Council



Project

IoT & data analytics to inform Mauricewood Primary School design.

Project Partners

Mauricewood Primary School
Midlothian Council, SmartViz & Scottish Futures Trust

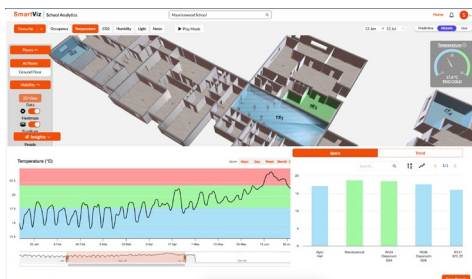


Data



The project consider the data source from not just newly deployed IoT sensors but the data source that already exists within the building and organisation to supplement any insights. This included timetable data as well as data from building management systems.

The project enabled the development of the SmartViz platform that seeks to integrate multiple data sets to enable holistic insights into asset performance.



People & Process



The project originated from a CivTech process from 2020 and Scottish Futures Trust continued to support the project through grant funding to scale adoption across the Midlothian estate and apply this approach within the primary school estate with a focus on investment decision making.